What is claimed is:

1. An optical recording apparatus comprising:

a semiconductor laser having a blue color wavelength and generating a light beam;

an optical fiber;

a laser module which guides the light beam of the semiconductor laser to the optical fiber; and

an optical recording medium which is applied an output beam from the optical fiber to form a latent image,

wherein a relative refractive index difference of the optical fiber is in a range of from 0.1 % to 0.2 %, a core diameter of the optical fiber is 4.5μm or less and a diameter of a beam spot emitted from the optical fiber is 3 μm or more.

2. The optical recording apparatus according to Claim 1, wherein

the semiconductor laser comprises a plurality of semiconductor lasers;

the laser module comprises a plurality of laser modules,

the optical fiber comprises a plurality of optical fibers,

wherein respective optical fibers are aligned at an equal interval in an array.

3. The optical recording apparatus according to Claim 1, wherein a wavelength of the semiconductor laser is in a range of from 390 nm to 450 nm.

4. The optical recording apparatus according to Claim 2, wherein a wavelength of the semiconductor laser is in a range of from 390 nm to 450 nm.

5. The optical recording apparatus according to Claim 1, wherein a spot of the output beam applied to the optical recording medium has a single peak circular light intensity distribution.

6. The optical recording apparatus according to Claim 1, wherein a spot of the output beam applied to the optical recording medium has a single peak elliptic Gaussian light intensity distribution.

7. The optical recording apparatus according to Claim 2, wherein a spot of the output beam applied to the optical recording medium has a single peak circular light intensity distribution.

8. The optical recording apparatus according to

Claim 2, wherein a spot of the output beam applied to the optical recording medium has a single peak elliptic Gaussian light intensity distribution.

9. The optical recording apparatus according to Claim 1, wherein the latent image is visualized and printed on a recording medium.

10. The optical recording apparatus according to Claim 2, wherein the latent image is visualized and printed on a recording medium.